

FORTHEM Collective Short-Term Mobility

POTENTIAL PROLIFERATION AND SPREAD OF ANTIBIOTIC RESISTANCE IN NATURAL AND ENGINEERED WATER SYSTEMS DUE TO CLIMATE CHANGE

Organising university: University of Palermo, Italy PROMISE department, University of Palermo, Italy

Location of the event: **Building 19** / Edificio 19, Campus, **Viale delle Scienze, 90128 Palermo**

Organizer: Person in charge: Prof. Paola Di Carlo and multidisciplinary team including Prof. Rosa Alduina, Prof. Riccardo Guarino, Prof. Domenica Matranga, Prof. Teresa Fasciana, Prof. Nicola Serra Naples, Prof. Anna Giammanco, Prof. Antonio Cascio, Prof. Sina Ayanlade, Nigeria, Prof. Consolato Maria Sergi, Canada, Ralf Heermann, Professor of Microbiology in Mainz.

Project description: Climate variability and seasonality play a significant role in the spatiotemporal distribution of diseases. Several studies have shown that the onset and spatial distribution of infectious diseases are sensitive to the seasonality of climatic factors both in Europe and in other parts of the world with significant perinatal morbidity and mortality. Many of these studies have shown that the transmission of microbes was highly seasonal due to climatic conditions, these events are much more frequent in recent times due to climate change.

Day by day programme: 27.06.2022 – 01.07.2022

Day and date	Morning	Afternoon	Evening
Day 1	10.00-10.30 Registration 10.30-12.30 Welcome of UNIPA Rector and the Heads of UNIPA Organizing Departments 12.30-14:00: Lunch	14.00-16.00 Epidemiology of infectious disease and their determinants: data and methods (Prof. Antonio Cascio) 16.00-19.00 Archeological sites	19.00-21.00 Dinner 21.00-23:00 Free Time
Day 2	9.30-12.30 Field trip through the Botanical Garden of the University of Palermo Studies (R. Guarino) 12.30-14:00: Lunch	14.00-16:00 Sensitivity of natural vegetation to climate change (R. Guarino) 16.00-19.00 Statistical methods for spatio-temporal distributions of diseases , Domenica Matranga	19.00-21.00 Dinner 21.00-23:00 Visiting of areas that changed morphological structure due to climate change in time
Day 3	9.30-12.30 Seminary Impact of climate change on microbial composition and antibiotic resistance, R. Alduina and Prof. Ralf Heermann 12.30-14:00: Lunch	14.00-16:00 Can Mathematical models predict the impact of climate change? N. Serra 16.00-19.00 Impact of climate change in Sicilian habits, Paola Di Carlo	19.00-21.00 Dinner 21.00-23:00 Free time
Day 4	9.30-12.30 Climate change in European Area and Mediterranean basin, Prof. Sina Ayanlade, Nigeria, 12.30-14:00: Lunch	14.00-16:00 Climate change in frailty population Prof. C. M. Sergi, Canada, 16.30-19.00 Conca D'oro, varieties of garden and botanical area	19.00-21.00 Dinner 21.00-23:00 Free Time
Day 5	9.30-12.30 Seminary on the impact of climate change in pathogens composition, Teresa Fasciana 12.30-14:00: Lunch	14.00-16:00 Climate change and infectious disease, Prof. Paola Di Carlo and A. Giammanco, 16.00 Close of the work	19.00-21.00 Intercultural sensitization and Mediterranean diet Dinner 21.00-23:00 :Free time

Eligibility criteria and selection criteria specific to this project: * Preference to master's or PhD Students of the School of Medicine (including Dentistry) or Biology, Preference to students attending the 3-rd year or higher
Basic requirement English level to follow the lesson X One-page CV X One-page Motivational letter